

INTERNATIONAL SEARCH REPORT

International application No

PCT/US 02/30659

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 F16B19/10

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 F16B B60R

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 405 272 A (WOLLAR BURNELL J) 20 September 1983 (1983-09-20)	1-4
Y	abstract column 4, line 7 - line 50 column 6, line 21 - line 56 figures	5
Y	US 3 385 157 A (RAPATA GEORGE M) 28 May 1968 (1968-05-28) column 3, line 22 - line 39 figures	5
X	US 5 568 675 A (ASAMI GORO ET AL) 29 October 1996 (1996-10-29) abstract column 3, line 29 - column 4, line 9 column 4, line 54 - column 5, line 7 figures	1,4,6

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

A document defining the general state of the art which is not considered to be of particular relevance

E earlier document but published on or after the international filing date

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O document referring to an oral disclosure, use, exhibition or other means

P document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

& document member of the same patent family

Date of the actual completion of the international search

27 November 2002

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05/12/2002

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Information on patent family members

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 4405272	A	20-09-1983	NONE	
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			US 3164054 A	05-01-1965
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